

Polynomials

$$\underline{x^4} + x^3 + \underline{3x^4} + x^2 + xr + rs$$

Group Like Terms (+, -)

$$4x^4 + x^3 + x^2 + xr + rs$$

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Distributive Property (x)

$$x(x+r)$$

$$= x^2 + xr$$

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$$(x)(x^4)(x) = x^{1+4+1}$$

$$= x^6$$

$$4xy^4z(6x^2yz^3)$$

$$= 24x^3y^5z^4$$

$$\frac{1a^2(2a^4)}{2a^2}$$

$$= \frac{2a^6}{2a^2}$$

$$= 1a^4$$

$$d) \frac{(21a^2b^3c^4)(3abc^2)}{7abc}$$

$$7abc$$

$$63a^4b^4c^6$$

$$7abc^1$$

$$9a^3b^3c^5$$

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$$-2(2x^2-4x) - 3x(4x+b)$$

$$-4x^2 + 8x - 12x^2 - 18x$$

$$-4x^2 - 12x^2 + 8x + 18x$$

$$-16x^2 - 10x$$

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$$0.45a(16b-3ab) - 0.1b(10a+4ab)$$

$$7.2ab - 1.35a^2b - 1ab - 0.4ab^2$$

$$6.2ab - 1.35a^2b - 0.4ab^2$$

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$$-\frac{1}{2} \left( \frac{2}{3}r - \frac{3}{6}s \right)$$

$$-\frac{3}{2} \left( \frac{7}{3}r - \frac{23}{6}s \right)$$

$$-\frac{21}{6}r + \frac{69}{12}s$$

$$-\frac{7}{2}r + \frac{23}{4}s$$

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Solving Polynomial Equations

$$3(x-1) + 2(3x+1) = 0$$

$$\underline{3x-3} + \underline{6x+2} = 0$$

$$9x - 1 = 0$$

$$9x = +1$$

$$9x = \frac{1}{9}$$

$$x = \frac{1}{9}$$

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$$-4(2z+3) = 12$$

$$-8z - 12 = 12$$

$$-8z = 12 + 12$$

$$-8z = 24$$

$$\underline{-8z} \quad \underline{-8}$$

$$z = -3$$

check

$$-4(2z+3) = 12$$

$$-4(2(-3)+3) = 12$$

$$-4(-6+3) = 12$$

$$-4(-3) = 12$$

$$+12 = 12$$

$$LS = RS$$

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$$\frac{4x-1}{4} + \frac{2x-1}{5} = 2$$

$$\frac{20}{1} \left( \frac{4x-1}{4} + \frac{2x-1}{5} \right) = (2) 20$$

$$\frac{80x-20}{4} + \frac{40x-20}{5} = 40$$

$$\underline{20x-5} \quad \underline{40x-4} = 40$$

$$28x - 9 = 40$$

$$28x = 40 + 9$$

$$\underline{28x} \quad \underline{28} \quad \underline{49}$$

$$x = \frac{49}{28}$$

$$x = \frac{7}{4}$$

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p 313-315 Textbook  
 2 odds, 3 odds, 5, 6  
 7 a, c, e, 11, 12 a)

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